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JAMES SARGENT.

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JAMES SARGENT'S

DESCRIPTIVE CATALOGUE

OF

Patent Magnetic Bank and Safe Locks,

MANUFACTURED AT

62 BUFFALO ST., ROCHESTER, N. Y.



1867.

ROCHESTER DEMOCRAT PRINTING HOUSE, 62 BUFFALO STREET.
G. FRAUENBERGER, ENGRAVER, 60 ARCADE.

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Entered according to Act of Congress, in the year 1867,

BY JAMES SARGENT,

In the Clerk's Office of the District Court of the United States in and for the
Northern District of New York.

PRICE LIST.

NO.	STYLE.	QUALITY.	NOS. ON DIAL.	CHANGES.	SIZE IN INCHES.	DEPTH.	PRICE.
1	Magnetic.	Bronze.	100	1,000,000	7 $\frac{1}{4}$ x 5 $\frac{7}{8}$	2 $\frac{1}{4}$	\$300
1	"	Iron.	100	1,000,000	7 $\frac{1}{4}$ x 5 $\frac{7}{8}$	2 $\frac{1}{4}$	250
1	Fire Proof Safe.	Iron.	100	1,000,000	7 $\frac{1}{4}$ x 5 $\frac{7}{8}$	2 $\frac{1}{4}$	100
2	Magnetic.	Bronze.	75	421,875	6 $\frac{3}{8}$ x 4 $\frac{5}{8}$	2 $\frac{1}{4}$	150
2	"	Iron.	75	421,875	6 $\frac{3}{8}$ x 4 $\frac{5}{8}$	2 $\frac{1}{4}$	100
3	Fire Proof Safe.	Iron.	50	125,000	5 $\frac{3}{8}$ x 4 $\frac{3}{8}$	2	25
4	Burglar Chest.	Bronze.	75	421,875	5 $\frac{3}{8}$ x 3 $\frac{5}{8}$	2	100
5	" "	Bronze.	50	125,000	4 $\frac{1}{2}$ x 3 $\frac{1}{4}$	1 $\frac{3}{4}$	75
5	Fire Proof Safe.	Iron.	50	125,000	4 $\frac{1}{2}$ x 3 $\frac{1}{4}$	1 $\frac{3}{4}$	25
6	Safety Fund.	Bronze.	50	25,000	4 $\frac{1}{4}$ x 2 $\frac{7}{8}$	1 $\frac{3}{8}$	25
6	" "	Iron.	50	25,000	4 $\frac{1}{4}$ x 2 $\frac{7}{8}$	1 $\frac{3}{8}$	12



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NOTICE.

The Locks hereinafter described are manufactured under Patents, bearing date as follows:

MAGNET—Patented.....	May 2, 1865
PERMUTATION WHEEL—Patented.....	May 23, “
KEY, with Stops limiting the action thereof,.....	Jan. 9, 1866
CAM, with Cap-bar for securing same on Spindle,.....	“ “ “
PERMUTATION WHEEL, Brakes and double Cam,.....	“ “ “
RACK AND LEVER,	August 28, 1866
REVOLVING BOLT,.....	“ “ “
BURGLAR PROOF SPINDLE,.....	Feb. 26, 1867

To My Patrons.

My design in thus publishing a Descriptive Catalogue is to place before you in their variety the Locks I Manufacture, thereby enabling you to determine at a glance several questions which frequently arise relative to the size and adaptation of certain Locks. The full size Cuts and Descriptions herein contained are calculated to answer such enquiries and obviate many difficulties that without it might arise in sending an order.

Thankful for the flattering tribute to the merits of my work which has been tendered to me through the purchase of more than three thousand of my Magnetic and Safe Locks, during the limited time I have been manufacturing, I ask a continuance of your favors, assuring you that in the future as in the past no effort shall be spared in my endeavors to furnish the best specimens of Burglar and Fire Proof Locks.

JAMES SARGENT.

Rochester, July, 1867.

DESCRIPTION
OF
James Sargent's Magnetic Lock,

WHICH IS SECURED BY FIVE PATENTS.

THIS IS A MOST SIMPLE AND RELIABLE COMBINATION LOCK.

It consists of three combination wheels, all revolving on one stud. Each of these wheels has a single slot, or notch, in its edge, and when these are all brought into line (which is done *when the combination is known*, by means of a knob on the outside of the door) the bolt may be thrown.

Over these wheels is a lever (or dog,) which *when they are all set right*, falls into the slots, and releases the bolt.

The lever DOES NOT REST ON THE WHEELS, NOR IS IT BROUGHT TO THEM BY A SPRING OR CAM, as in most other Locks, BUT IS HELD ABOVE THEM BY A POWERFUL MAGNET.

Every time the knob is turned round the Magnet is separated from the Lever, (by means of a roller on the cam) which then falls to the wheels, and if the Bolts are all right drops *into* them, thus releasing the Bolt.

The operation of the Magnet in this manner shuts off entirely the use of the Mierometer, an instrument recently applied to picking Locks, a brief description of which may be found on page 47.

The MAGNETIC LOCK presents a perfect barrier to the operation of this instrument, which can never indicate the position of the slots, unless there is a positive connection with the outside, when the tumbler and wheels are in contact. This connection has, necessarily, to be made *in all locks*, except the MAGNETIC, in order to control the movements of the tumbler.

In the Magnetic Lock the Lever is LIFTED FROM THE WHEELS BY THE ATTRACTION OF THE MAGNET, and in no ease, by revolving the knob, can it be brought in contact with the slot in any wheel, *except when in position to unlock.*

The Magnet is protected against loss of power by an upper armature, which, in the unloked position, falls upon the poles, thereby preserving at all times the electric current.

The Lever governs the movement of the Bolt by means of a Rack to which it is pivoted, and which in turn is connected with the Revolving Bolt by eogs in the interior of the same. The action of the Bolt is dependent upon the Lever, whieh is prevented from operating, when in the locked position, by a stop at its head, formed in the bottom of the Lock. When, the slots being adjusted, the Lever is allowed to fall, it is caught by the cam hook and projected under this stop, thereby giving a rotary movement to the Bolt. By this action a cavity in the Bolt is brought up into position, where a finger from the Bolt work may be shot into it, thereby releasing the Bolts.

It will be perceived that the vital points of the Lock are proteeted against any jar or conenission that might be brought to bear against the Safe Bolts, by the large stud upon which the bolt revolves, and which is capable of resisting almost any amount of pressure. The action of the Rack, drawing, as it does, directly above the center of the Bolt, produces a steady, even movement, when locking or unlocking, with which every one operating a Magnetic Lock is delighted.

The advantage possessed by this Lock in attaching it to a Safe Door, doing away with the necessity of all jaws or joints of whatever nature, requiring only a finger from the Bolt work to the mouth of the Bolt, will be appreiated by every Safe maker.

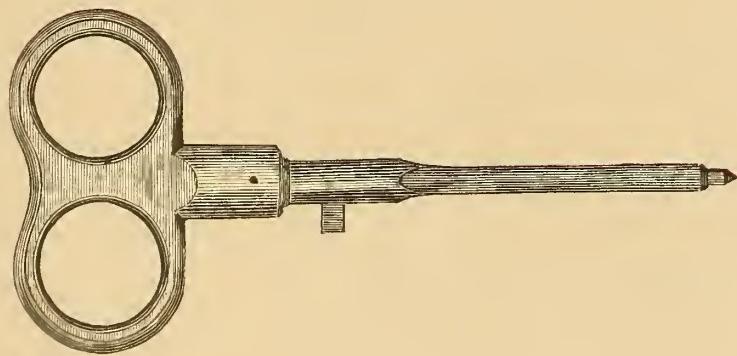
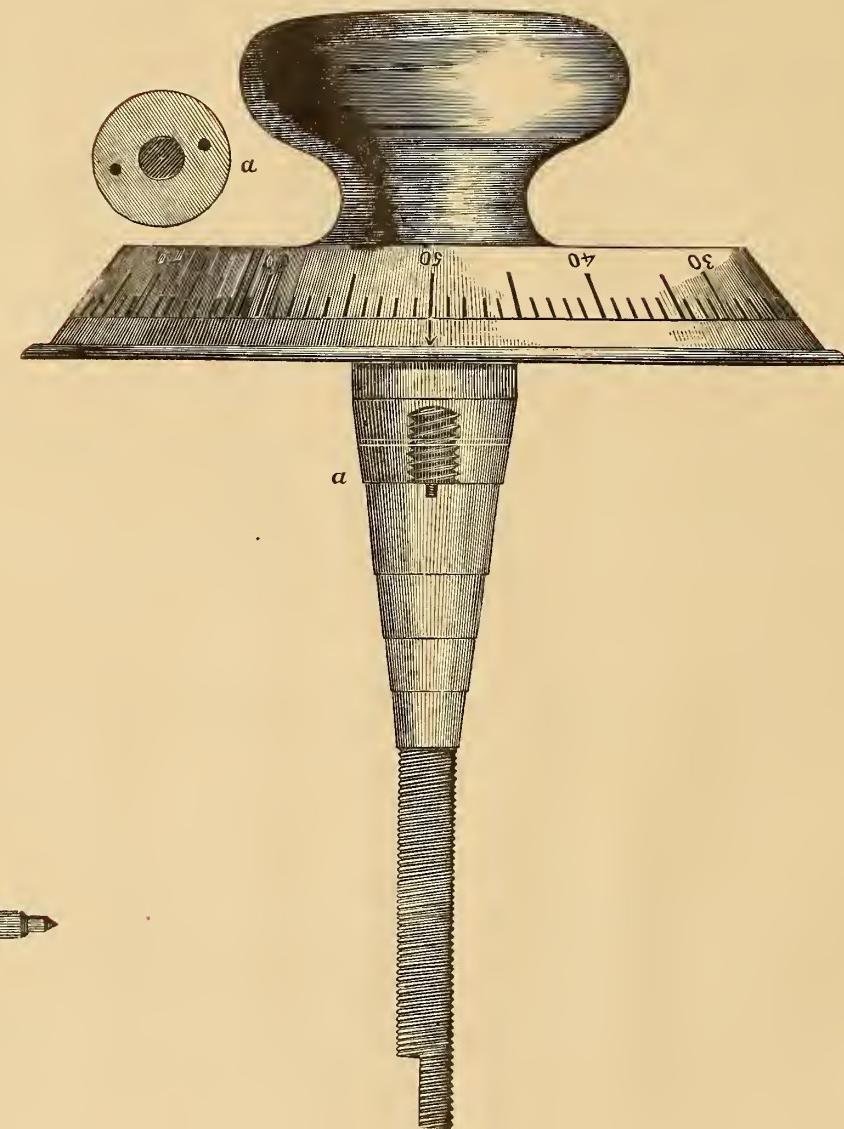
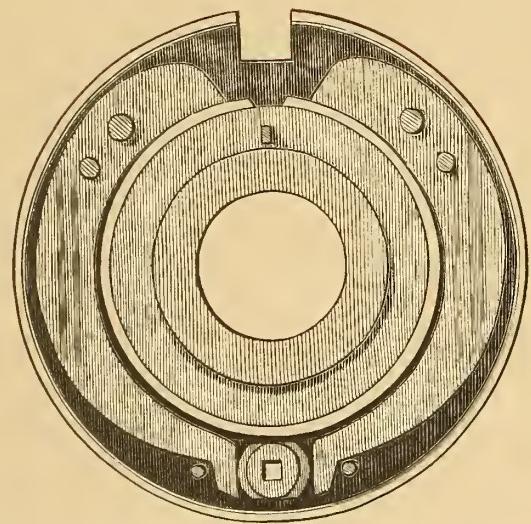
The Arbors in my Locks *do not pull out*, or *shove in* while operating the Lock, nor is there any "DEAD HOLD" to which force can be applied to wrench off the knob when the Lock is in the locked position.

See description of Taper Spindle page 11.

Particular attention is called to my method of securing the eam upon the spindle. The cap bar is made wedge shaped upon the side opposite the spindle, and held firmly in its place against the flattened side of the spindle by two strong screws, making the cam secure beyond all possibility of failure.

S A F E L O C K S .

I manufacture in great variety Fire Proof Safe Locks, which combine most of the principles involved in my Magnet Loeks, except the Magnet and Tapering Spindle. The same revolving bolt, combination wheel, eam, &c., are used, and they are possessed of the same advantage of ease in attaching to Safes. Constructed in a thorough and substantial manner, entirely void of springs, not liable to get out of order, combining elegance and beauty of finish, with the best of workmanship, both my Magnet and Safe Locks are well calculated to give satisfaction and pleasure to dealer and purchaser. By my extensive facilities for manufacturing, I am enabled to offer at reasonable rates, a superior grade of work to all in need of Bank and Safe Locks.



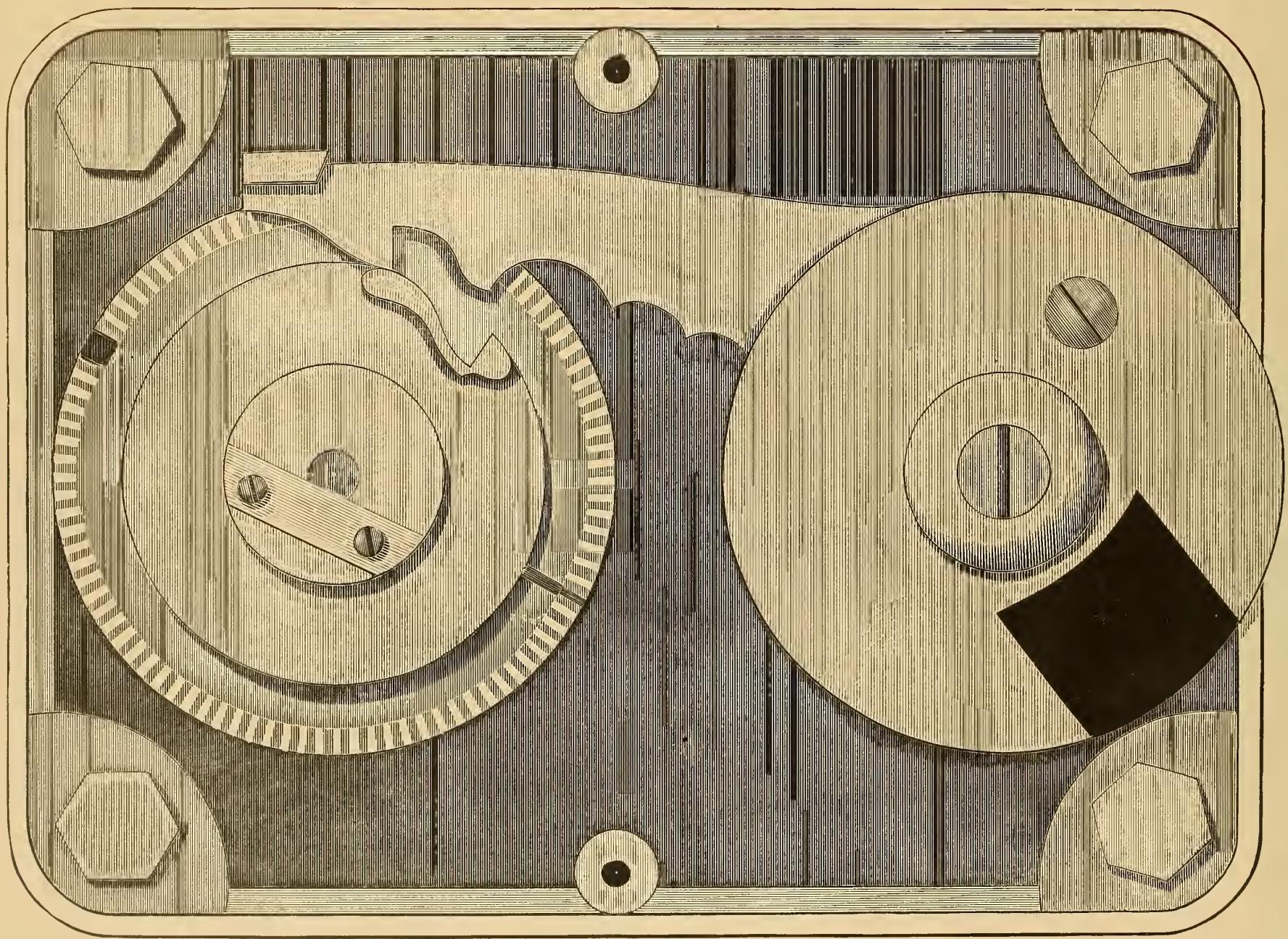
Burglar Proof Spindle, PERMUTATION WHEEL AND KEY.

The Cuts on the opposite page represent the Burglar Proof Spindle used in all the Magnetic Locks, and the Key and Permutation Wheel common to both my Magnetic and Safe Locks. An examination of the latter will at once show its simplicity and convince any one of its strength and reliability. The action of the key, running through and locking or unlocking all the wheels at the same time exerts the greatest possible mechanical force for the space employed. I have yet to learn of the failure of one of these wheels among the 9,000 already manufactured.

The Lock Spindle, made of finest hardened steel, tapers towards the inside of the Safe with steps or offsets in the conical part, which combined are equal to an abrupt shoulder. In case an attempt is made to drive the spindle through, these steps form a cutting edge and produce positive resistance thereto, while at the same time the conical form prevents any rebound of the spindle which would tend to part the metal. Should force be applied in an attempt to pull out the Spindle, it would separate at its point of connection (before yielding in any other place) $\frac{1}{8}$ of an inch below the surface of the safe door, leaving the Spindle, which has no LATERAL MOTION, closely fitted to the tapering hole and out of reach of the burglar's tools.

The Slot indicated in the Spindle at its point of connection with the knob, of which an end view (a) is also given, is a means of protection against a "lock up" in case the knob is wrenched off by any unfair means. The Slot being made exactly opposite 50 on the knob, the latter can again be attached by inserting a pin at that point, and the Lock will operate on the numbers to which it is set.

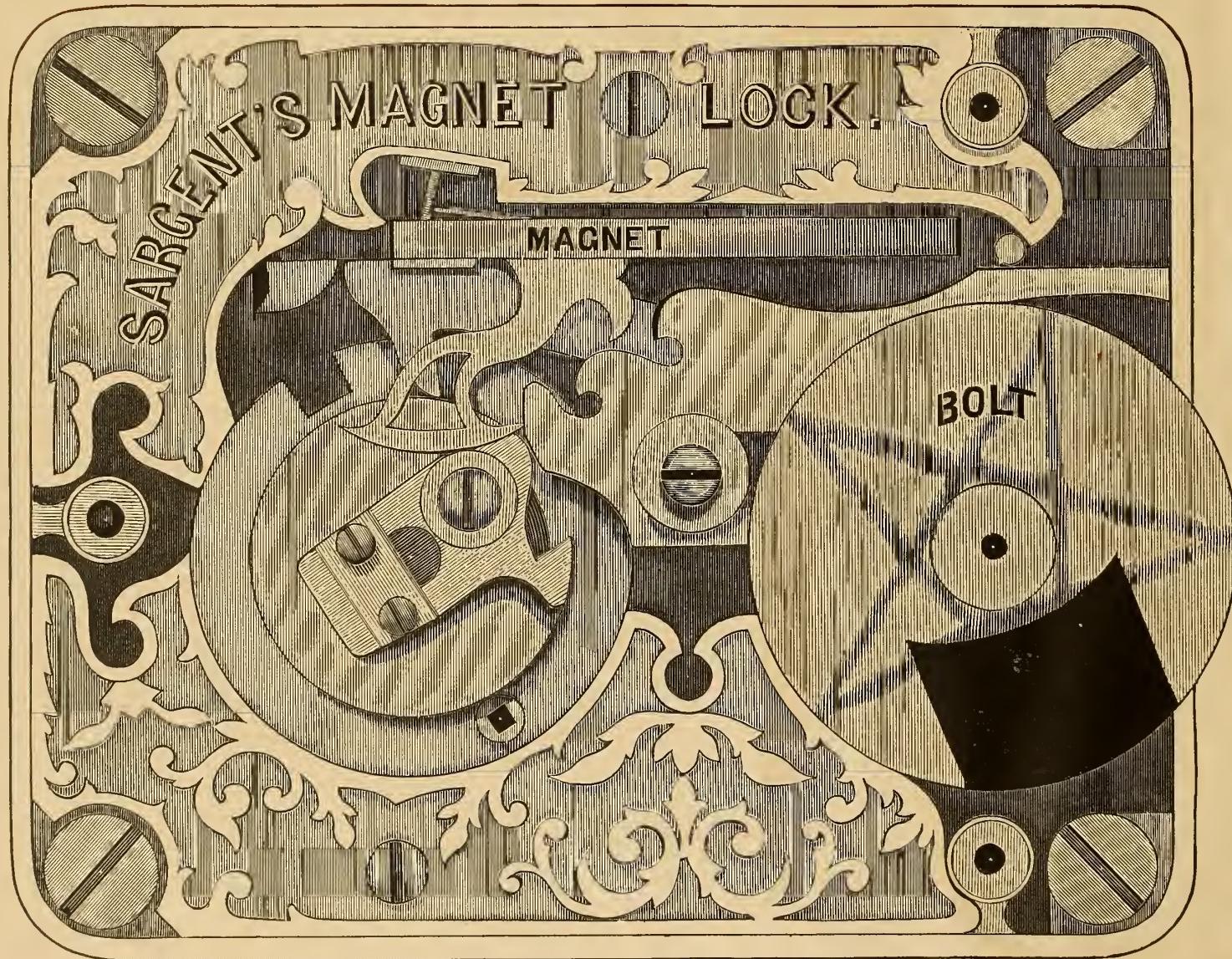
This tapering spindle is the subject of a patent dated Feb. 26, 1867.

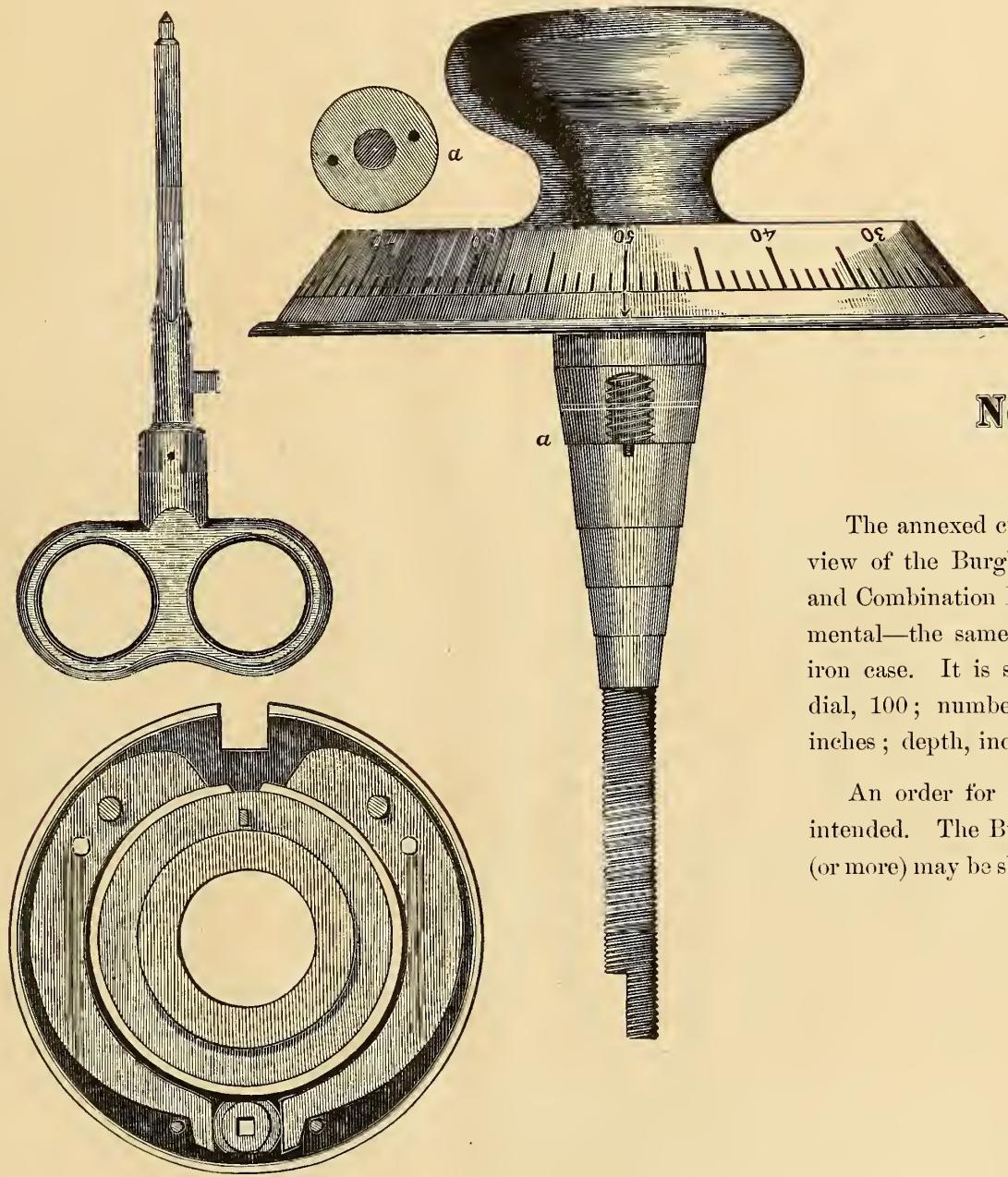


No. 0, Four Wheel Combination Lock.

The cut on the opposite page represents a large four wheel experimental Lock, with the Cover, which includes the sides removed.

Not Manufactured.

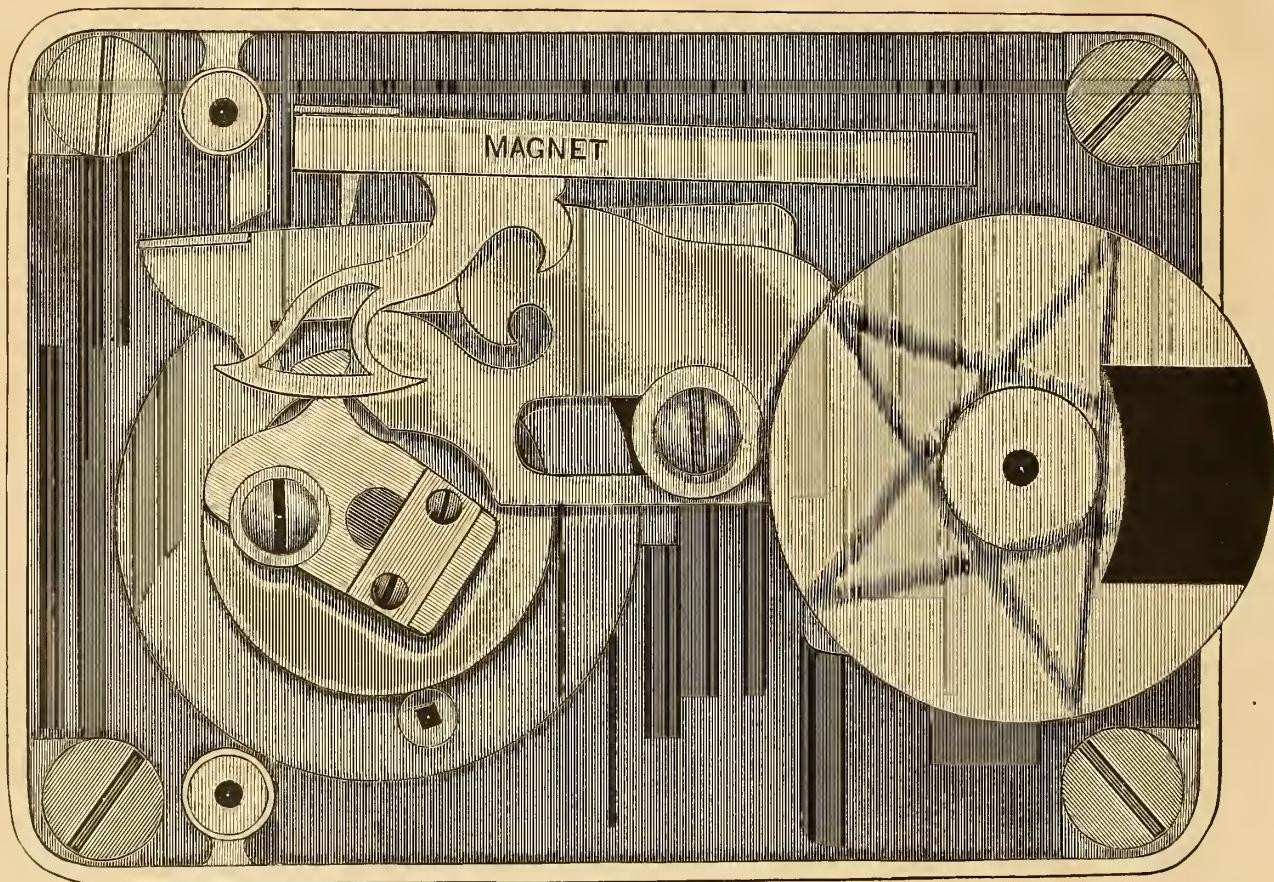




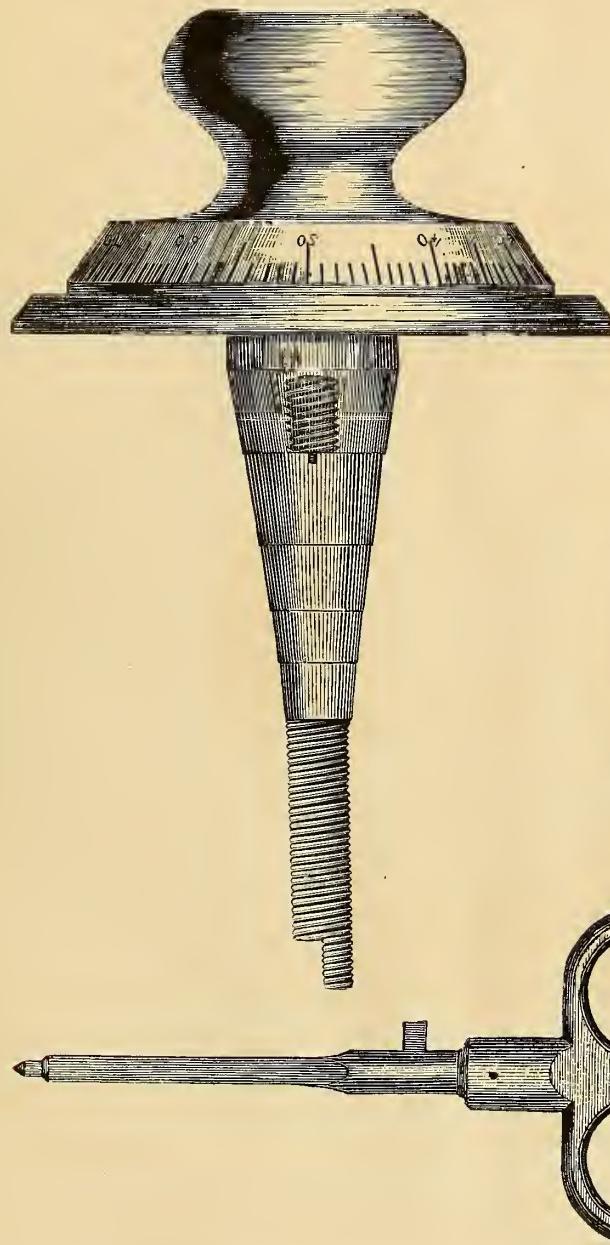
No. 1, Magnetic Lock.

The annexed cuts represent the No. 1 Magnetic Lock, (full size) with a view of the Burglar Proof Taper Spindle, Knob and Dial, Open Wheel and Combination Key. This lock is beautifully finished and highly ornamental—the same mechanism and finish being put into either bronze or iron case. It is suitable for the best burglar proof work. Numbers on dial, 100; number of changes in combination, 1,000,000; size, $7\frac{1}{4} \times 5\frac{1}{8}$ inches; depth, inclnding cover, 24 inches.

An order for a lock should state *the thickness of Door* for which it is intended. The Burglar Proof Spindle, when ordered for two inch Doors (or more) may be shortened to accommodate a Door $\frac{1}{2}$ inch less in thickness.



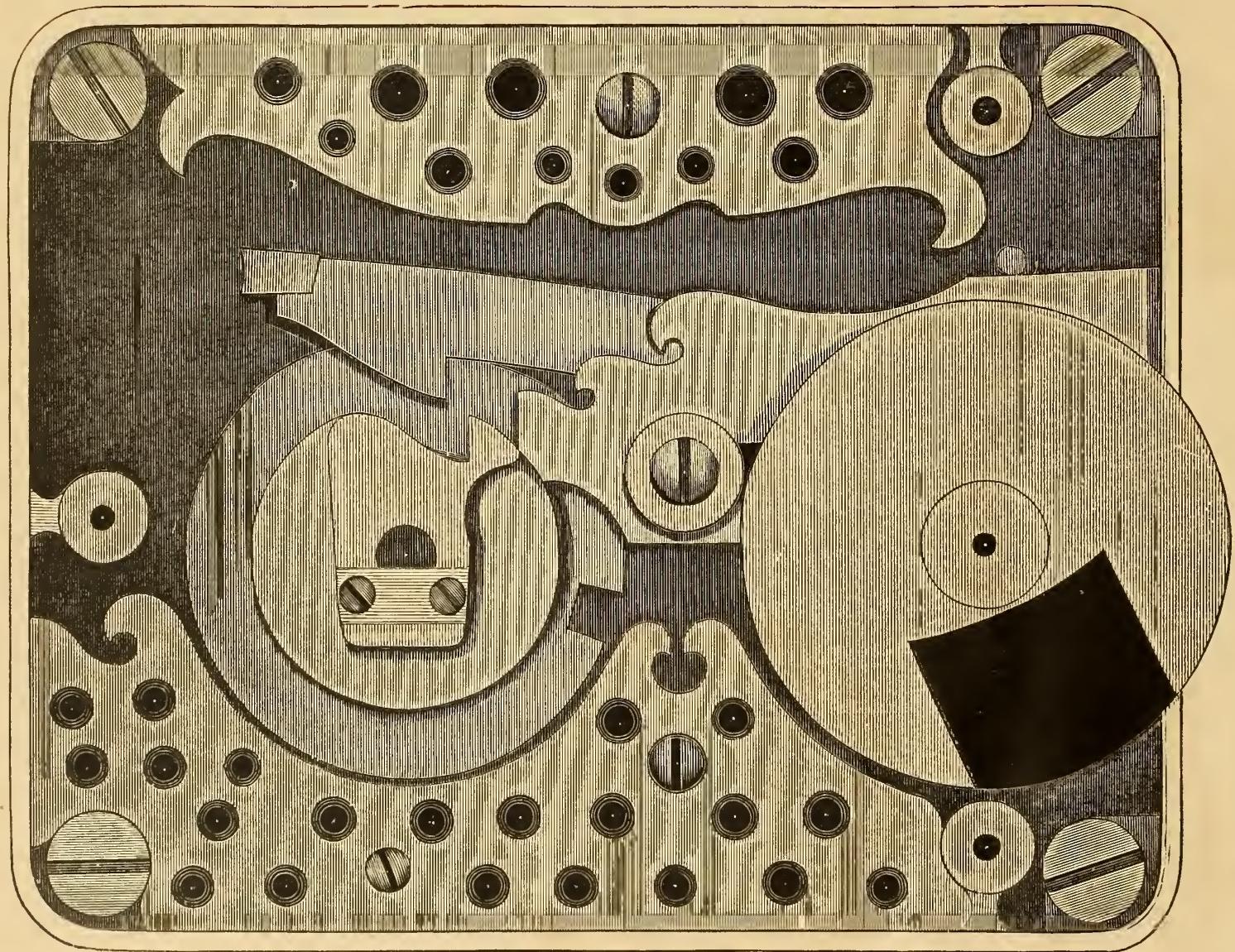
No. 2 MAGNETIC LOCK.

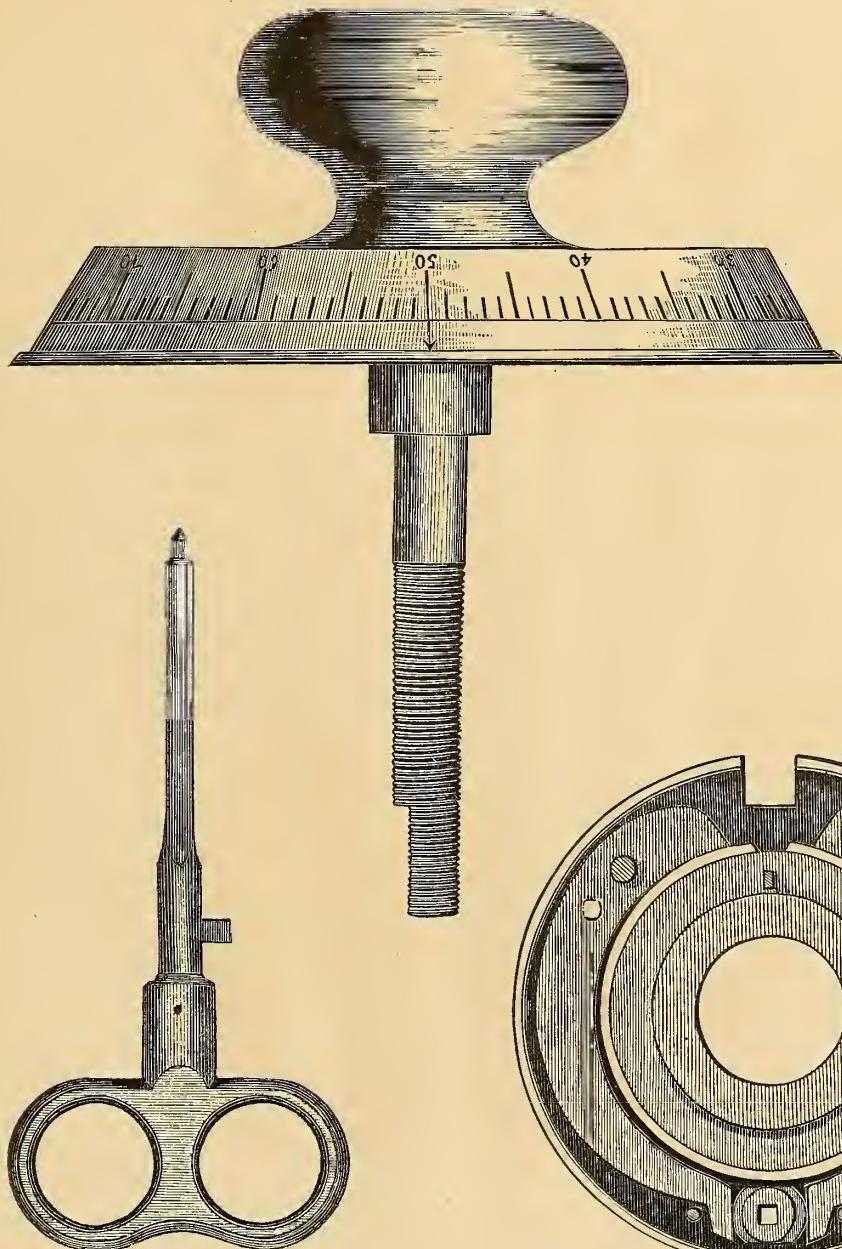


No. 2, Magnetic Lock.

This lock is represented in its unlocked position, with Burglar Proof Taper Spindle, Wheel, Combination Key, &c., in full size. It is finely finished, in either bronze or iron case; has an easy movement, and is adapted to small safes and money chests. Seventy-five numbers on dial; capable of 421,825 changes in combination; size, $6\frac{3}{4} \times 4\frac{5}{8}$ inches; depth, including cover, $2\frac{1}{4}$ inches.

An order for a lock should state the *thickness of Door* for which it is intended. The Burglar Proof Spindle, when ordered for two inch Doors (or more) may be shortened to accommodate a Door $\frac{1}{2}$ inch less in thickness.

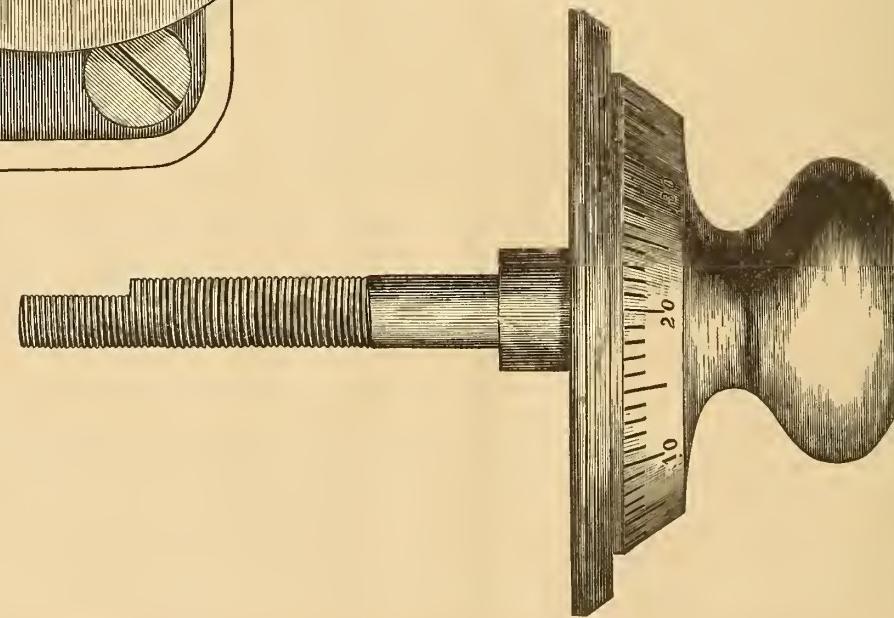
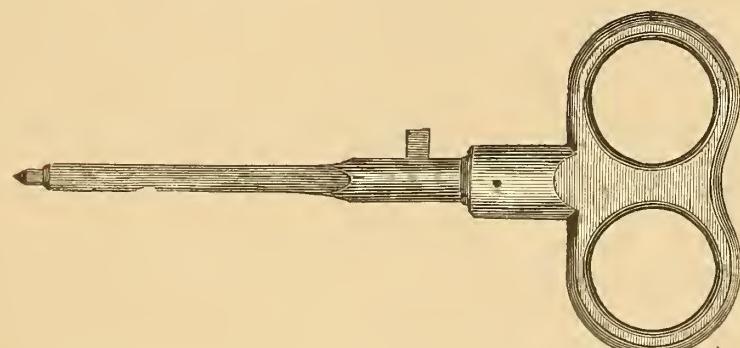
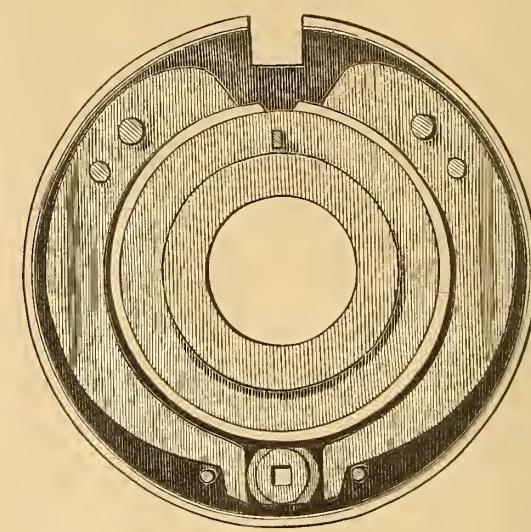
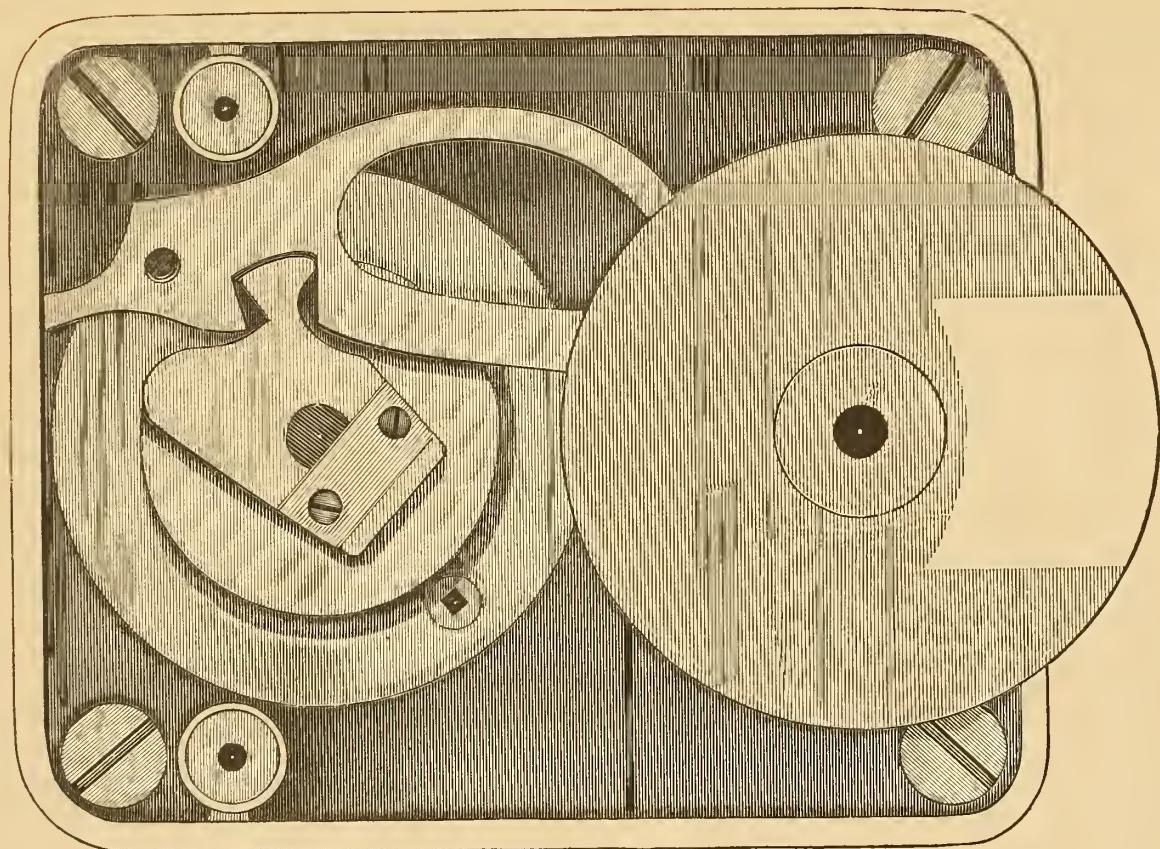




No. 1, Fire Proof Safe Lock.

This lock is made in iron case, same size as No. 1 Magnet. The Knob and Dial are also the same. The Spindle is made with square shoulder, as shown. This size is suitable for large fire proof Safes, and outside doors for fire proof vaults. One hundred numbers on dial ; capable of 1,000,000 changes in combination ; size, $7\frac{1}{4}$ x $5\frac{3}{8}$ inches ; depth, including cover, $2\frac{1}{4}$ inches.

An order for a lock should state *the thickness of Door* for which it is intended. The Spindle should be ordered *long enough*, as it may be adjusted to a Door $\frac{1}{2}$ inch thinner, by shortening it.

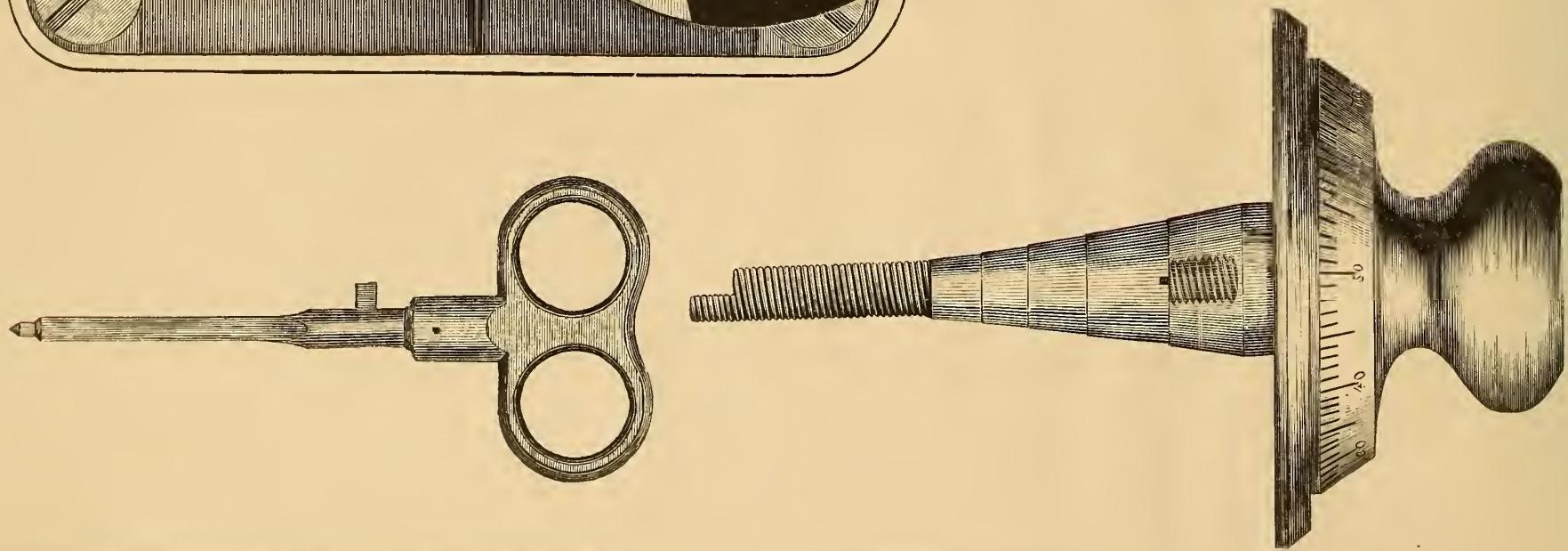
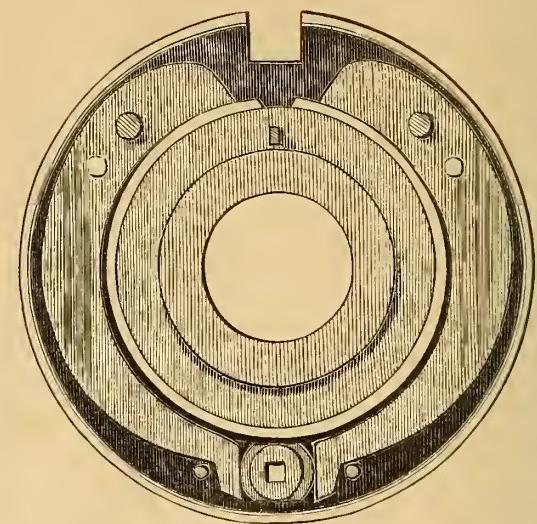
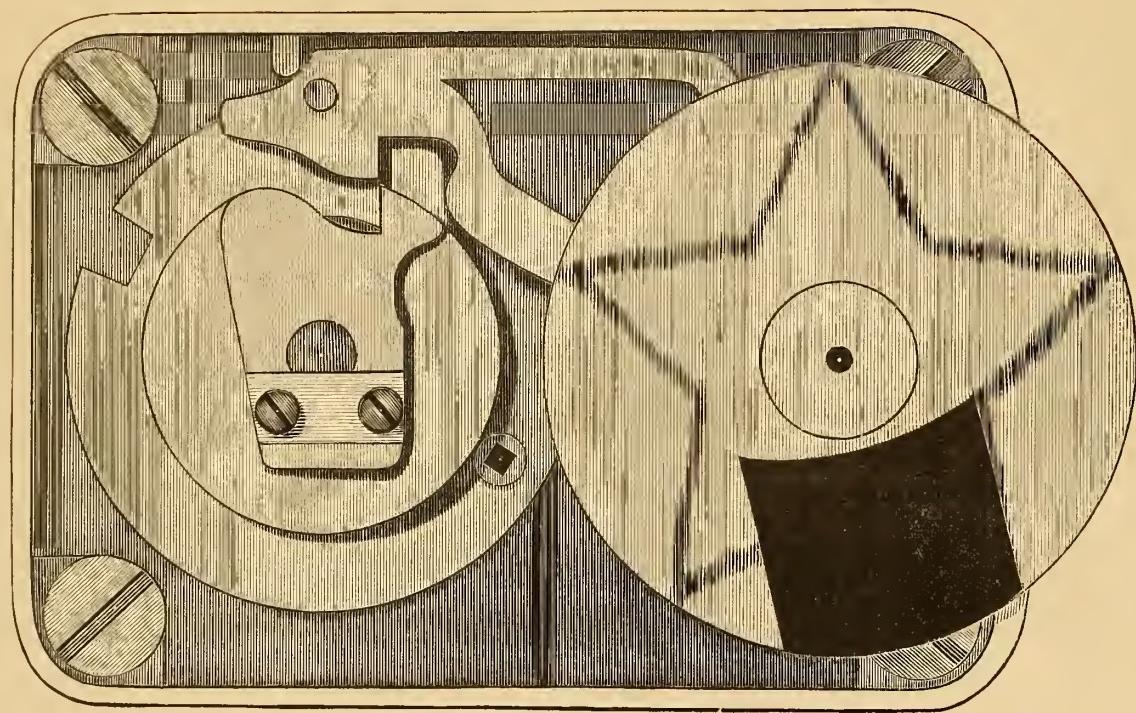


No. 3, Fire Proof Safe Lock.

This Lock is constructed with same wheel, Revolving Bolt, &c., as the Magnetic Lock. A Fire proof spindle is used, with square shoulder, as shown in cut. It is simple and positive in its operation, and more easily adjusted upon a Safe Door than any other Safe Lock in use. It is made in Iron Case and adapted to all fire proof Safes, and inside doors for fire proof vaults. 50 numbers on Dial, capable of 125,000 changes in combination. Size $5\frac{1}{2} \times 4\frac{1}{2}$ inches. Depth, including Cover, 2 inches.

An order for a Lock should state *the thickness of Door* for which it is intended. The spindle should be ordered *long enough*, as it may be adjusted to a door $\frac{1}{2}$ inch thinner, by shortening it.

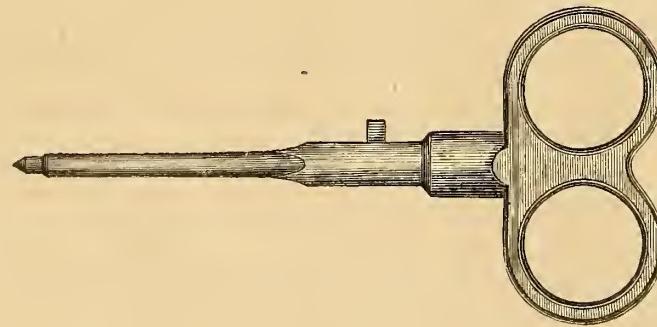
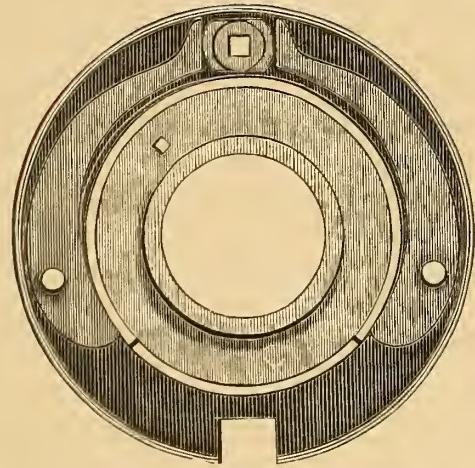
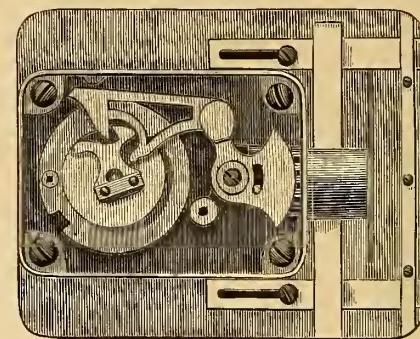
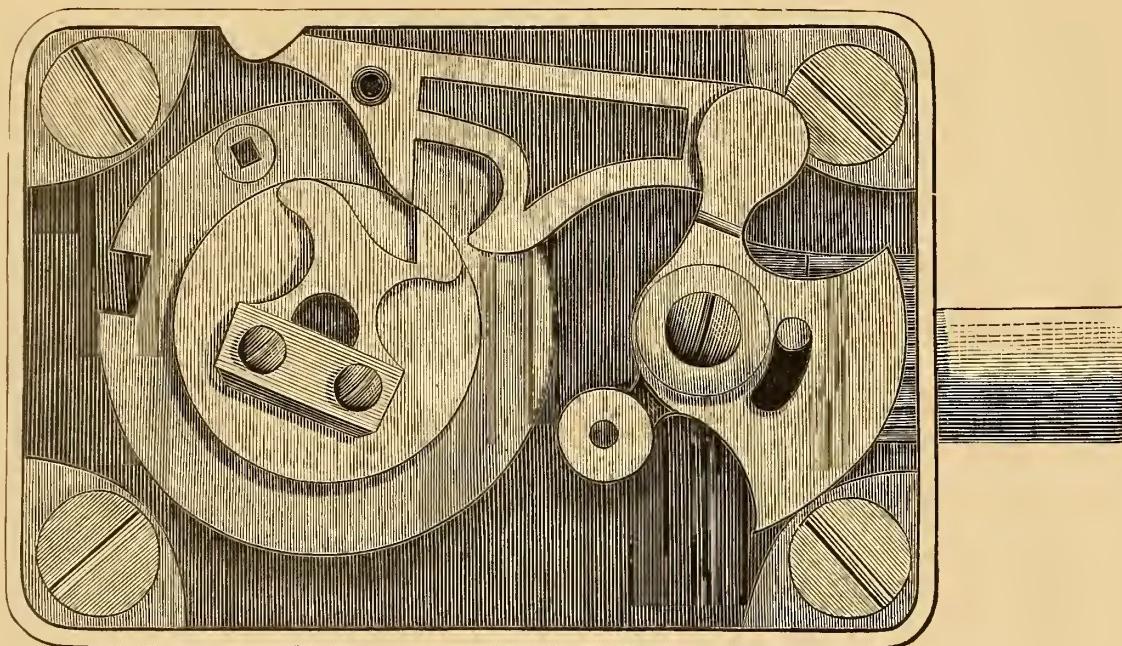




No. 4, Burglar Chest Lock.

In this Lock, the Wheel and Bolt are same size as in the No. 3 Safe Lock. It is elegantly finished in bronze case, and has the taper Burglar proof spindle. By its reduced size it is specially adapted to small Burglar Chests, or Safes, where there is limited spacee for a Lock. It is also suitable for compartment doors, &c. 75 numbers on Dial, capable of 421,825 changes in combination. Size, $5\frac{1}{2}$ x $3\frac{1}{2}$. Depth, including Cover, 2 inches.

An order for a Lock should state *the thickness of Door* for which it is intended. The burglar proof spindle, when ordered for two inch Doors, (or more) may be shortened to accommodate a Door $\frac{1}{2}$ inch less in thickness.



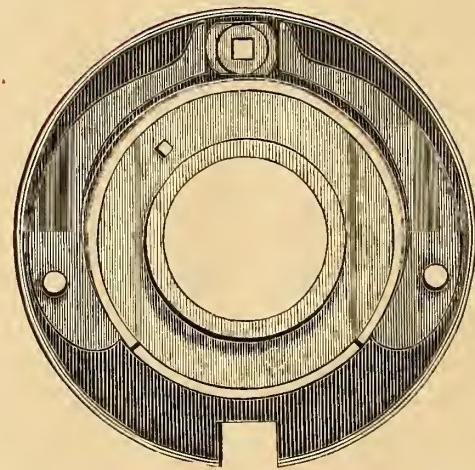
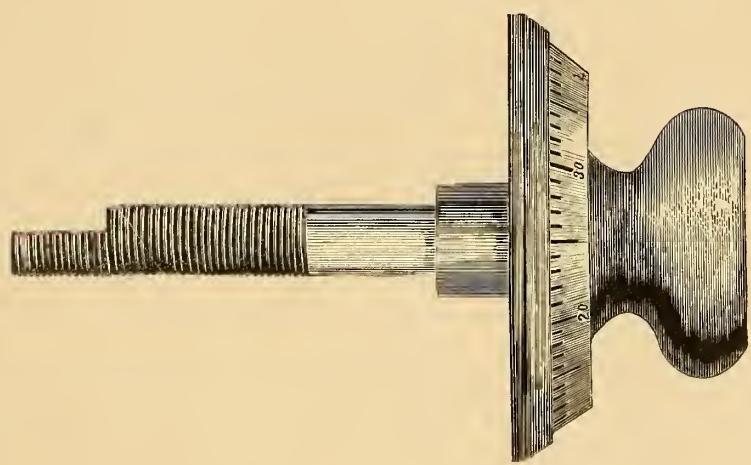
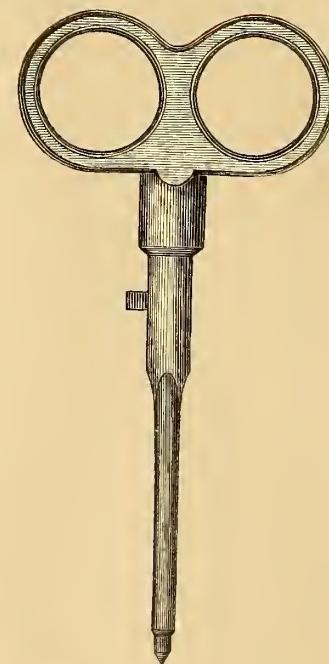
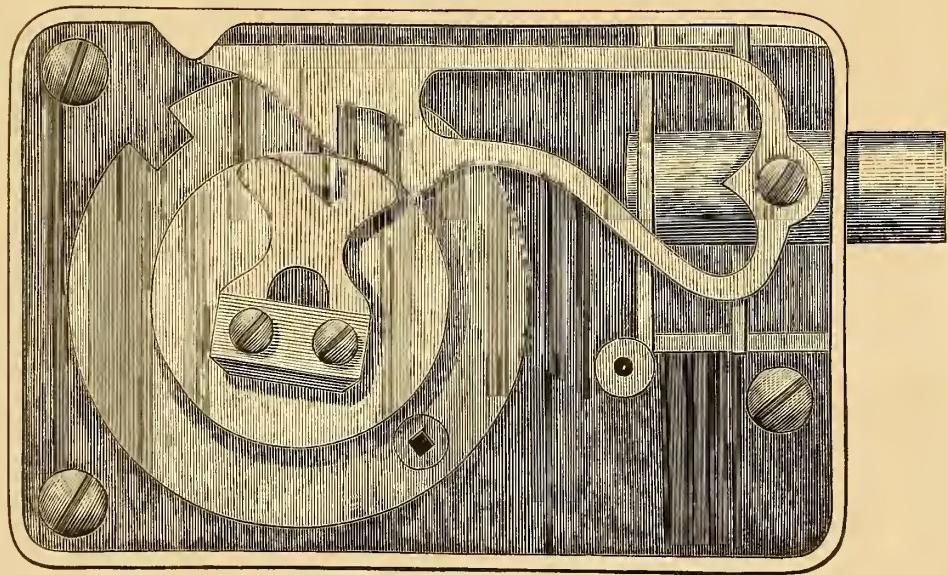
No. 5, Safe Lock.

WITH HORIZONTAL REVOLVING BOLT.

The cuts opposite, represent the No. 5 Safe Lock, with Spindle, combination Wheel and Key. Also, a small size view of the same Lock in its unloeked position, showing the method of attaching it, and adjusting the Bolt work. The Wheel used has the same meehanism as those in the larger Locks, only reduced in size.

In this Lock, the Lever or Dog is pivoted to a segment gear, hung upon a stud in the bottom of the ease, through which a rotary movement is produced in the horizontal Bolt, by means of cogs in the same. Outside of the case, the Bolt is made in the form of an eeeentric half cylinder. In its locked position, the stop, limiting the aetion of the Bolt work, is $\frac{1}{8}$ of an inch wide. The operation of unloocking throws the projection (or eccentric) down, presenting the flattened side of the Bolt, behind which the cross bar on the Bolt work may pass. See small cut. Simple in construction, and positive in its operation, this is a reliable and popular Lock for Fire Proof Safes and compartment Doors. It is made in either Bronze or Iron Case. 50 numbers on Dial; 125,000 changes in combination. Size, $4\frac{1}{4} \times 3\frac{3}{8}$ inches. Depth, inclnding Cover, $1\frac{1}{2}$ inches.

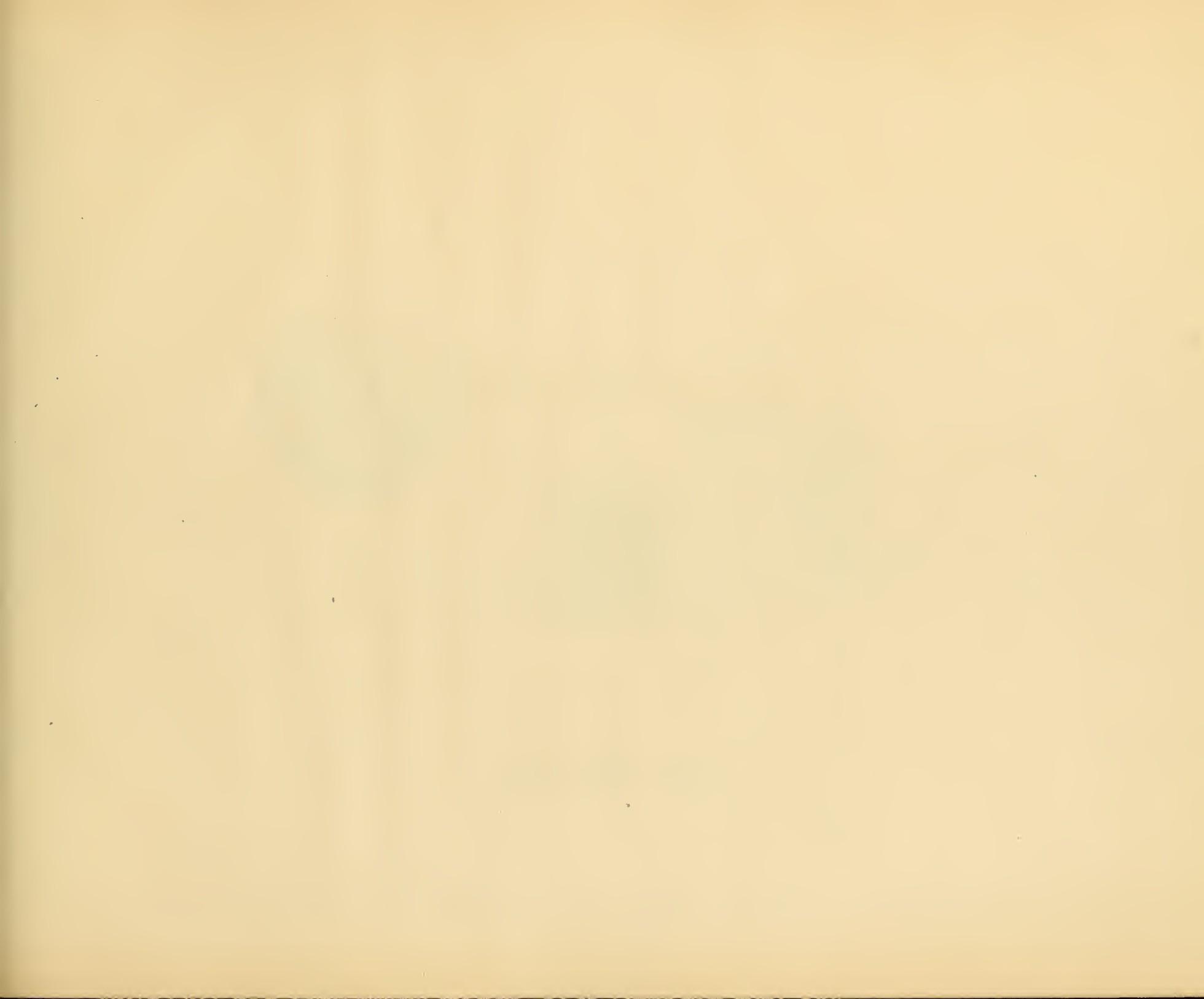
An order for a Lock should state *the thickness of Door* for which it is intended. The Spindle should be ordered *long enough*, as it may be adjusted to a Door $\frac{1}{2}$ inch thinner by shortening it.

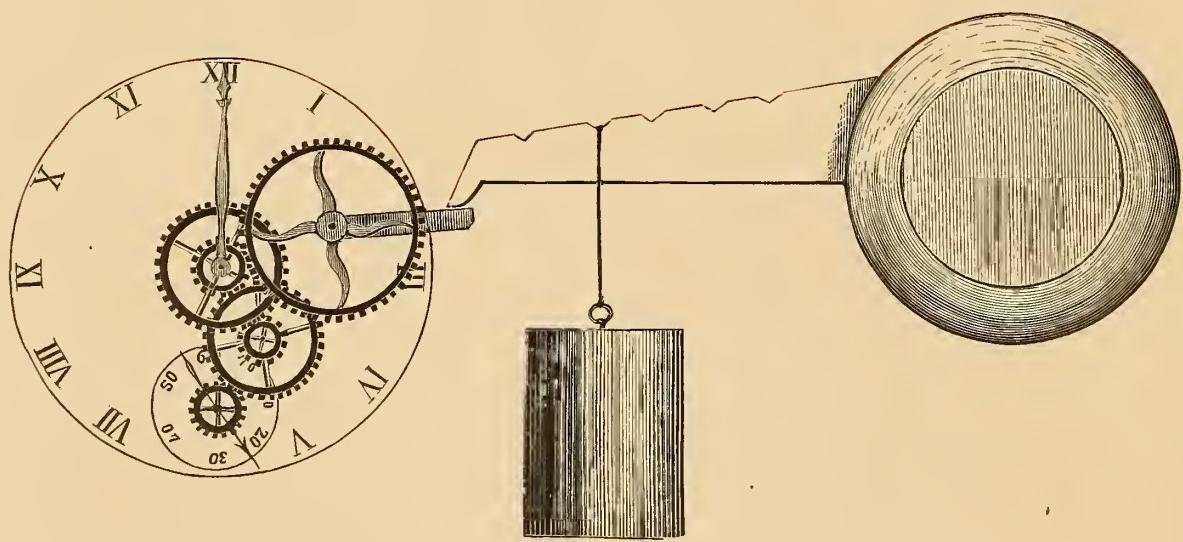


No. 6, Safety Fund Lock.

This Lock has two wheels, and is specially designed to take the place of Key Locks in the vaults of Safe Deposit Companies. The Lever acts directly upon the round projecting bolt, and it is intended for use without bolt work. It is suitable, also, for small inside Doors to Safes. The advantage of a Lock for these purposes, without a Key which may be misplaced or stolen, will recommend itself to every one. This Lock is simple, inexpensive, and reliable. It can be had in either Bronze or Iron Case. 50 numbers on Dial; 2500 changes in combination. Size $4\frac{1}{4} \times 2\frac{3}{8}$ inches. Depth, including Cover, $1\frac{1}{8}$ inches.

An order for this Lock should state particularly *the thickness of Door* for which it is intended.





The Micrometer.

The Micrometer,

The annexed cut represents the Micrometer, and the method of attaching it to the knob of a Lock in an attempt to pick the same. This instrument was invented and perfected by James Sargent, in 1860. It will measure the ten thousandth part of an inch, and has been demonstrated to be a simple and practicable machine, for picking most of the combination and other Locks now in use. It measures the movement of the tumbler so perfectly, when connected with the knob outside, as to indicate the exact position of the slots in the wheels, even when they are made with the greatest care.

A knowledge of the efficiency of the Micrometer in effecting entrance to the most intricate security, first led to the study of a plan to cover the points over which it exerts its power. This culminated in the application to Locks of the MAGNETIC principle, in connection with which the Micrometer is effectually "shorn of its strength," and encounters an obstacle which it is powerless to overcome.

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